

SPECIFICATION

FOR APPROVAL

Customer :

Description : Magnetic Transducer

Universal Model No. : SMT5020

Customer's Model No. :

ISSUE	CHECK	APPROVAL	CUSTOMER
Zu Yu 14.05.04	Si Cong 14.05.04	Wan Xue 14.05.04	

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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Unit	Specifications
1-1	Rated Voltage (Square Wave)	V	3.0
1-2	Operating Voltage	V	2-5
1-3	* Rated Current (Max)	mA	100
1-4	* Min Sound Output at 10cm	dB	75
1-5	* Resonant Frequency	Hz	4000
1-6	Coil Resistance	Ω	12 \pm 2
1-7	Operating Temperature	$^{\circ}$ C	-30~+70
1-8	Storage Temperature	$^{\circ}$ C	-40~+85
1-9	Weight	g	0.3
1-10	Housing Material		LCP
1-11	Lead Pin Material		Brass

* Value Applying at Rated Voltage (resonant frequency, 1/2 duty, square wave)

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2. ENVIRONMENTAL TEST

Item	Specifications
2-1 Storage in High temp.	Storage in $+90^{\circ}\text{C}\pm 2^{\circ}\text{C}$ test box for 240 hours, then expose to the room temperature for 2 hours without applying power.
2-2 Storage in Lower temp.	Storage in $-30^{\circ}\text{C}\pm 2^{\circ}\text{C}$ test box for 240 hours, then expose to the room temperature for 2 hours without applying power.
2-3 Storage in Humidity	Storage in $+40^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-4 Thermal cycle test.	<p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
2-5 Vibration test	<p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>
2-6 Drop test	Free drop a unit from the height 100cm to the surface of 10mm thick board, three directions(X, Y, Z).
2-7 Solderability test	Soldering temp.: $260\pm 5^{\circ}\text{C}$ Heat applying time: $3\pm 0.5\text{sec}$.

PASS CRITERION :

After these tests , the change of S.P.L shall be within ± 5 dB .

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3.MEASURING METHOD(BUZZER MODE)

3-1 .Test Condition

3-1-1.STANDARD

Temperature : $25\pm 3^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-1-2.JUDGEMENT

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

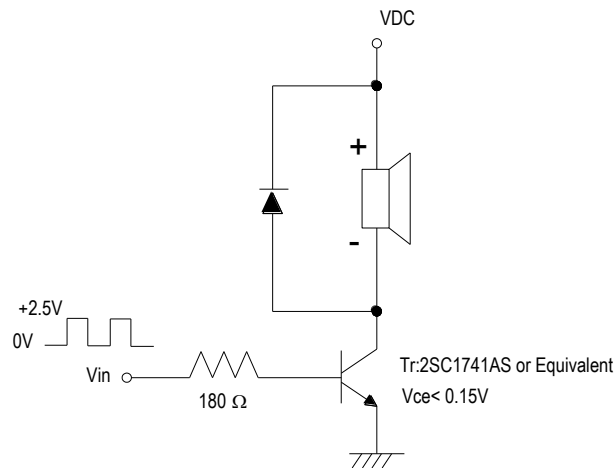
Atmospheric pressure: 860mbar to 1060mbar.

3-2. Standard Test Fixture

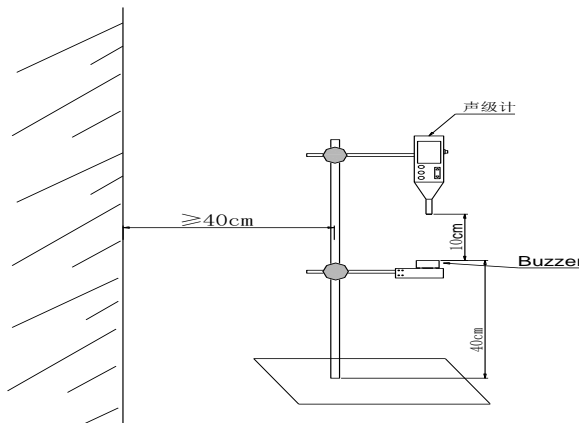
1.rated Voltage(Square wave):3V

2.Resonant Frequency:4000Hz

3.Standard Drive Circuit:



4. Standard test fixture:



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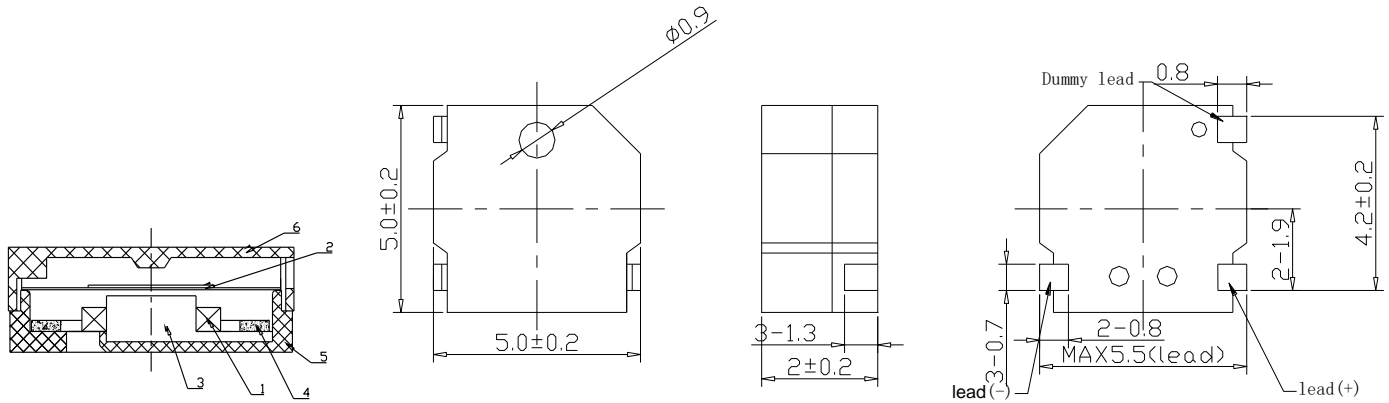
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5.DIMENSIONS

Unless otherwise specified, tolerance:±0.5(unit: mm)



Cadmium(Cd)/Cadmium Compounds	≤100ppm
Lead (Pb) / Lead Compounds	≤800ppm
Mercury (Hg) Mercury Compounds	≤800ppm
Hexavalent-Chromium (Cr6+) Compounds	≤800ppm
PBB	≤800ppm
PBDE	≤800ppm

- 1) All parts must be meet to ROHS.
- 2) Reflow solder allowed, wash not allowed.

8				
7				
6	Housing	1	LCP	
5	Bottom case	1	LCP	
4	Core	1	Ferrite	
3	Iron	1	Iron	
2	Diaphragm	1	Iron	
1	Coil	1	Copper	
Part No.	Part Name	Q'TY	Material	Remark

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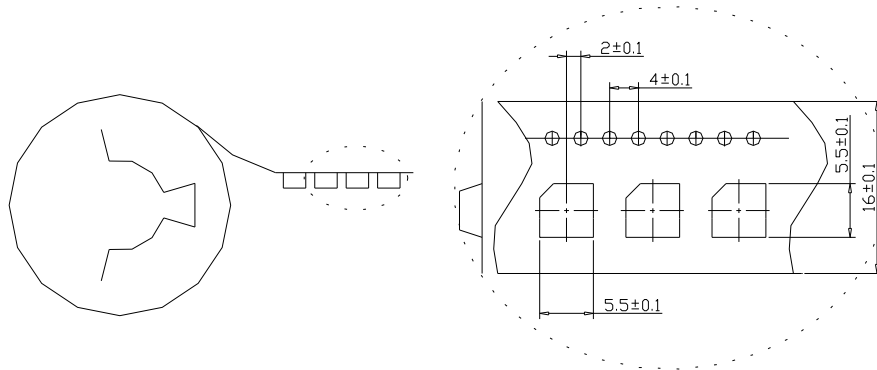
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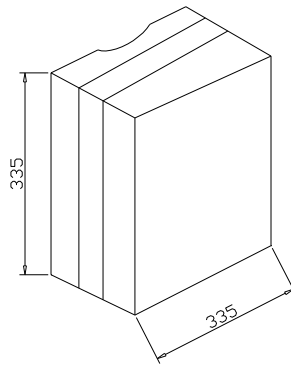
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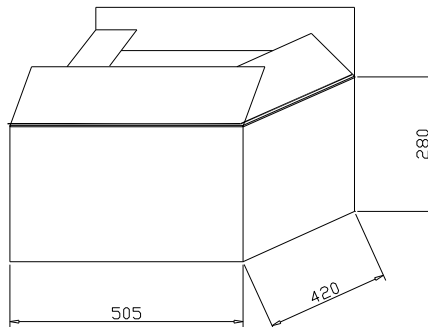
7.PACKING



2000PCS/CARRUER REEK; 每卷装2000只



5ROLL CARRIER REEL/INNER BOX;5卷放一小包装



20000PCS/CTN 每箱放20000只

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